

1. A precast concrete retaining wall system adapted for use as a wing wall for a concrete culvert to retain a backfill of soil, comprising a precast concrete retaining wall adapted to be supported by a concrete footer, secondary reinforcing members extending generally throughout said retaining wall, at least one precast concrete anchor member including an outer flange wall and an integrally connected web wall connecting said flange wall to said retaining wall, elongated reinforcing members extending within said web wall of said anchor member and including connecting portions projecting into said retaining wall, a set of generally vertical primary reinforcing bars extending within said retaining wall adjacent said connecting portions of said reinforcing members within said web wall, and said primary reinforcing bars being substantially larger than said secondary reinforcing members extending throughout said retaining wall to provide for substantially reducing the weight of said secondary reinforcing members within said retaining wall.

2. A wall system as defined in claim 1 wherein said connecting portions of said reinforcing members within said web wall of said anchor member comprise enlarged head portions embedded within said concrete of said retaining wall, and said primary reinforcing bars are located between said head portions and said web wall of said anchor member.

3. A wall system as defined in claim 1 wherein said web wall of said anchor member extends generally parallel to said vertical primary reinforcing bars within said retaining wall.

4. A wall system as defined in claim 1 wherein said connecting portions of said reinforcing members within said web wall of said anchor member comprise internally threaded tubular anchors embedded within said retaining wall, and said reinforcing members within said web wall of said anchor member comprise tie rods rotatably supported within guide tubes within said web wall and having threaded end portions connected to said tubular anchors within said retaining wall.

5. A wall system as defined in claim 4 wherein said tie rods have threaded outer end portions projecting from said web wall of said anchor member, and nut members threaded onto said outer end portions of said tie rods.

6. A wall system as defined in claim 5 wherein at least one said threaded tubular anchor is embedded within said retaining wall on an incline relative to said retaining wall and above said precast anchor member, and one of said tie rods is inclined relative to said retaining wall and has a threaded upper end portion threaded into said one tubular anchor.

7. A wall system as defined in claim 1 wherein said secondary reinforcing members extending generally throughout said retaining wall comprise elongated metal reinforcing fibers.

8. A wall system as defined in claim 1 wherein said secondary reinforcing members extending generally throughout said retaining wall comprise a mesh of reinforcing wires substantially smaller than said primary reinforcing bars.

9. A precast concrete retaining wall system adapted for use as a wing wall for a concrete culvert to retain a backfill of soil, comprising a precast concrete retaining wall adapted to be supported by a concrete footer, secondary reinforcing members extending generally throughout said retaining wall, at least one precast concrete anchor member including an outer flange wall and an integrally connected generally vertical web wall connecting said flange wall to said retaining wall, vertically spaced elongated reinforcing members extending within said web wall of said anchor member and including connecting portions projecting into said retaining wall, a plurality of generally vertical primary reinforcing bars extending within said retaining wall adjacent said connecting portions of said reinforcing members within said web wall, and said primary reinforcing bars being substantially larger than said secondary reinforcing members extending throughout said retaining wall to provide for substantially reducing the weight of said secondary reinforcing members within said retaining wall.

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10. A wall system as defined in claim 9 wherein said connecting portions of said reinforcing members within said web wall of said anchor member comprise enlarged head portions embedded within said concrete of said retaining wall, and said primary reinforcing bars are located between said head portions and said web wall of said anchor member.

11. A wall system as defined in claim 9 wherein said connecting portions of said reinforcing members within said web wall of said anchor member comprise internally threaded tubular anchors embedded within said retaining wall, and said reinforcing members within said web wall of said anchor member comprise tie rods rotatably supported within ducts within said web wall and having threaded end portions connected to said tubular anchors within said retaining wall.

12. A wall system as defined in claim 11 wherein said tie rods have threaded outer end portions projecting from said web wall of said anchor member, and nut members threaded onto said outer end portions of said tie rods.

13. A wall system as defined in claim 12 wherein at least one said threaded tubular anchor is embedded within said retaining wall on an incline relative to said retaining wall and above said precast anchor member, and one of said tie rods is inclined relative to said retaining wall and has an upper end portion threaded into said one tubular anchor.

14. A wall system as defined in claim 9 wherein said secondary reinforcing members extending generally throughout said retaining wall comprise elongated metal reinforcing fibers.

15. A wall system as defined in claim 9 wherein said secondary reinforcing members extending generally throughout said retaining wall comprise a mesh of reinforcing wires substantially smaller than said primary reinforcing bars.

16. A precast concrete retaining wall system adapted for use as a wing wall for a concrete culvert to retain a backfill of soil, comprising a precast concrete retaining wall adapted to be supported by a concrete footer, reinforcing members extending generally throughout said retaining wall, at least one precast concrete anchor member including an outer flange wall and an integrally connected generally vertical web wall connecting said flange wall to said retaining wall, elongated reinforcing rods extending within said web wall of said anchor member and including internally threaded tubular anchors embedded within said retaining wall, and said reinforcing rods within said web wall of said anchor member comprise tie rods rotatably supported within ducts within said

web wall and having threaded end portions connected to said tubular anchors within said retaining wall.

17. A wall system as defined in claim 16 wherein said tie rods have threaded outer end portions projecting from said web wall of said anchor member, and nut members threaded onto said outer end portions of said tie rods.

18. A wall system as defined in claim 17 wherein at least one said threaded tubular anchor is embedded within said retaining wall on an incline relative to said retaining wall and above said precast anchor member, and one of said tie rods is inclined relative to said retaining wall and has a threaded upper end portion threaded into said one tubular anchor.

19. A wall system as defined in claim 16 wherein said reinforcing members extending generally throughout said retaining wall comprise elongated metal reinforcing fibers.